

Form PTO-1449



Attorney Docket No.

Serial No.  
081853,119

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Applicant

Filing Date

Group

## U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>MC</i>	A	2002/0069017A1	06/06/02	Schmier, et al.	701	213	01/18/02
<i>MC</i>	B	2002/0098802A1	05/29/02	Jones	340	994	11/20/02
<i>MC</i>	C	2002/0099500A1	07/25/02	Schmier, et al.	701	200	02/01/02
<i>MC</i>	D	4,894,649	01/16/90	Davis	340	825.44	01/07/88
<i>MC</i>	E	5,097,429	03/17/92	Wood, et al.	364	569	04/23/90
<i>MC</i>	F	5,271,484	12/21/93	Bahjat, et al.	187	29.1	04/10/91
<i>MC</i>	G	5,428,546	06/27/95	Shah, et al.	364	449	10/16/92
<i>MC</i>	H	5,446,678	08/29/95	Saltzstein, et al.	364	514	12/18/92
<i>MC</i>	I	5,570,100	10/29/96	Grube, et al.	364	446	03/10/94
<i>MC</i>	J	5,680,119	10/21/97	Magliari, et al.	340	904	06/06/96
<i>MC</i>	K	5,513,111	04/30/96	Wortham	364	460	07/22/94

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
<i>MC</i>	L EP 0219859 A2	04/29/87	Europe	G08G	1/12	X	
<i>MC</i>	M EP 0805427 A1	11/05/97	Europe	G08G	1/123		X
<i>MC</i>	N WO 90/01236	02/08/90	PCT	H04M	1/54	X	
<i>MC</i>	O WO 93/13503	07/08/93	PCT	G08B	5/22	X	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>MC</i>	P <input checked="" type="checkbox"/>	"Public Transportation Information and Management Systems", IEE Colloquium, Computing and Control Division, May 25, 1993, pp. 9/1- 9/4, 12/1-12/2, 7/1-7/3.
<i>MC</i>	Q <input checked="" type="checkbox"/>	"Vehicle Location and Fleet Management Systems", IEE Colloquium, Computing and Control Division, June 8, 1993
<i>MC</i>	R <input checked="" type="checkbox"/>	The 3rd International Conference on Vehicle Navigation & Information Systems (VNIS) Norway, September 2-4, 1992, pp. 312-315

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MC	A	5,734,981	03/31/98	Kennedy, III, et al.	455	445	03/17/95
MC	B	5,774,825	06/30/98	Reynolds	364	449.7	10/18/95
MC	C	5,808,565	09/15/98	Matta, et al.	340	994	03/21/97
MC	D	6,094,149	07/25/00	Wilson	340	904	10/03/97
MC	E	6,097,317	08/01/00	Lewiner, et al.	340	994	04/30/97
MC	F	6,222,462	04/24/01	Hahn	340	904	05/13/99
MC	G	6,240,362	05/29/01	Gaspard II	701	209	10/19/00
MC	H	6,253,146	06/26/01	Hanson, et al.	701	202	12/06/99
MC	I	6,618,668	09/09/03	Laird	701	200	04/26/00
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## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
MC	L	WO 94/02922	02/03/94	PCT	G08G	1/123		X
MC	M	WO 94/27264	11/24/94	PCT	G08G	1/123	X	
MC	N	WO 96/04634	02/15/96	PCT	G08G	5/22		X
MC	O	WO 96/16386	05/30/96	PCT	G08G	1/123	X	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

MC	P	Preiss, George; Jenson, Lillian; "The Satref and GPS Information Projects", 1992 IEEE - 3rd International Conference on Vehcile Navigation Information Systems, ppp. 648-655.
	Q	"Vehicle Navigation & Information Systems Conference Proceedings" (P-253), Society of Automotive Engineers, Inc., October 1991, pp. 789-796.
MC	R	"1992 Compendium of Technical Papers", Institute of Transportation Engineers - INRAD: A Deminostration of Two-Way Roadway to Vehicle Communication for use in Traffic Operations", Annual Meeting, Washington, D.C. pp. 214-218.
	S	

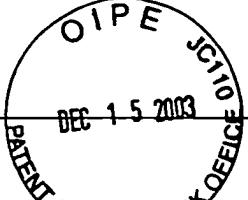
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<i>ML</i>	L	WO 98/07128	02/19/98	PCT	G08G	1/123		X
<i>ML</i>	M	WO 98/08206	02/26/98	PCT	G08G		X	
<i>ML</i>	N	WO 98/14926	04/09/98	PCT	G08G	1/123	X	
<i>ML</i>	O	WO 98/40837	09/17/98	PCT	G06G	7/70	X	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>ML</i>	P	"Paving the Way for GPS in Vehicle Tracking", Showcase World, December 1992.
<i>ML</i>	Q	"Advanced Vehicle Monitoring and Communication Systems for Bus Transit", Federal Transit Administration,
		September 1991, Revised March 1993.
<i>ML</i>	R	Koncz, et al., "GIS-Based Transit Information Bolsters Travel Options", GIS World, July 1995, pp. 62-64.

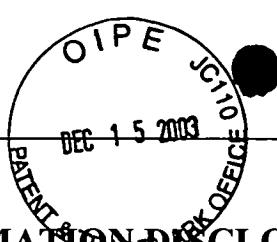
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EXAMINER'S SIGNATURE: *ML Clegg*

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MC	A 9	Helleker, Jan, "Real-Time Traveller Information – in everyone's pocket?! – a pilot test using hand-portable GSM terminals, IEEE – IEE Vehicle Navigation & Information systems Conference, Ottawa, VNIS 1993, pp. 49-52.					
MC	B ✓	Burgen, E.C., et al., "A Personal Transit Arrival Time Receiver", IEEE – IEE Vehicle Navigation & Information Systems Conference, Ottawa, VNIS 1993, pp. 54-55.					
MC	C ✓	Peng, Zhong-Ren, "A Methodology for Design for a GIS-Based Automatic Transit Traveler Information System", Computer, Environment and Urban Systems, Vol. 21, No. 5, pp. 359-372, 1997.					
MC	D ✓	Lessard, Robert, "The Use of Computer for Urban Transit Operations", IEEE – IEE Vehicle Navigation & Information systems Conference, Ottawa, VNIS 1993, pp. 586-590.					
MC	E ✓	Sommerville, Fraser, et al., "Reliable Information in Everyone's Pocket – a Pilot Test", IEEE, Vol. 1927, March 1994, pp. 425-428.					
MC	F ✓	"PROMISE – Personal Mobile Traveller and Traffic Information Service – Specification of Promise Services, Ver. 7", Telematics Application Programme A2, Transport, July 1, 1996.					
MC	G ✓	"PROMISE – Personal Mobile Traveller and Traffic Information Service – Generic Promise System Architecture, Ver. 2", Telematics Application Programme A2, Transport, September 10, 1996.					
MC	H ✓	"PROMISE – Personal Mobile Traveller and Traffic Information Service – Summary of Promise Public Relation Activities, Ver. 1", Telematics Application Programme A2, Transport, February 12, 1999.					
MC	I ✓	"PROMISE" – A Personal Mobile Traveller and Traffic Information Service – Abstract", The Institution of Electrical Engineers, 1997.					
MC	J ✓	Sommerville, Fraser, et al., "The Promise of Increased Patronage", The Institution of Electrical Engineers, 1993, pp. 3/1-3/4.					
MC	K ✓	"Automatic Transit Location System", Washington State Department of Transportation, Final Report, February 1996.					
MC	L ✓	"Advanced Traveler Aid Systems for Public Transportation", Federal Transit Administration, September 1994.					
MC	M ✓	"Advanced Vehicle Monitoring and Communication Systems for Bus Transit: Benefits and Economic Feasibility", U.S. Department of Transportation, Urban Mass Transportation Administration, September 1991.					
MC	N ✓	Leong, Robert, et al., "An Unconventional Approach to Automatic Vehicle Location and Control for Urban Transit", IEEE 1989, pp. 219-223.					
MC	O ✓	"1994 Vehicle Navigation & Information Systems Conference Proceedings", Yokahama, Japan, August 31 – September 2, 1994, pp. 807-810.					
MC	P ✓	"Vehicle Navigation & Information Systems Conference Proceedings – P-253, Part 2", Society of Automotive Engineers, Inc., October 1991.					
MC	Q ✓	"Vehicle Navigation & Information Systems – Conference Record of Papers presented at the 3 <sup>rd</sup> Vehicle Navigation & Information Systems Conference 1992., Reso Hotel, Osio Plaza., pp. 49-52.					
MC	R ✓	Nelson, J. Richard, "Experiences Gained in Implementing an Economical Universal Motorist System", IEEE – IEE Vehicle Navigation & Information Systems Conference, Ottawa, VNIS 1993, pp. 67-71.					

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MC	A ✓ 26	"The Cassiope/Eurobus Approach", IEEE – IEE Vehicle Navigation & Information Systems Conference, Ottawa, VNIS 1993, pp. 79-81.					
MC	B ✓ 27	Kihl, Mary, "Advanced Vehicle Location System for Paratransit in Iowa", IEEE – IEE Vehicle Navigation & Information Systems Conference, Ottawa, VNIS 1993, pp. 381-384.					
MC	C ✓ 28	Gault, Helen, et al., "Automatic Vehicle Location and Control at OC Transpo", IEEE – IEE Vehicle Navigation & Information Systems Conference, Ottawa, VNIS 1993, pp. 596-600.					
MC	D ✓ 29	Vehicle navigation & Information System – Conference Record of Papers presented at the First Vehicle Navigation and Information Systems Conference (VNIS '89), Sept. 11-13, 1999, pp. 602-605.					
MC	E ✓ 30	Heti, Gabriel, "Travelguide: Ontario's Route Guidance System Demonstration", IEEE – IEE Vehicle Navigation & Information Systems Conference, Ottawa, VNIS 1993, pp. A13-A18.					
MC	F ✓ 31	Jeffery, D.J., et al., "Advanced Traveller Information Systems in the UK: Experience from the Pleiades and Romanse Projects", IEEE – IEE Vehicle Navigation & Information Systems Conference, Ottawa, VNIS 1993, pp. 309-313					
MC	G ✓ 32	Sweeney, Lawrence, E., et al., "Travinfo: A Progress Report", 1994 Vehicle Navigation & Information Systems Conference Proceedings", Yokahama, Japan, August 31 – September 2, 1994, pp. 315-320.					
MC	H ✓ 33	Shimamura, Yta, et al., "Combined Position Detection System for Pedestrian/Train Mode", 1994 Vehicle Navigation & Information Systems Conference Proceedings", Yokahama, Japan, August 31 – September 2, 1994, pp. 603-606.					
MC	I ✓ 34	Zavoli, Walt, "Customer Location Services", 1994 Vehicle Navigation & Information Systems Conference Proceedings", Yokahama, Japan, August 31 – September 2, 1994, pp. 613-617.					
MC	J ✓ 35	Tanaka, Yoshimi, et al., "Automatic Traffic Information Provision System Utilizing Facsimile and Telephone (Now Operating in Osaka)", 1994 Vehicle Navigation & Information Systems Conference Proceedings", Yokahama, Japan, August 31 – September 2, 1994, pp. 627-632.					
MC	K ✓ 36	McDonald, Mike, et al., "Romanse (Road Management System for Europe) Project", 1994 Vehicle Navigation & Information Systems Conference Proceedings", Yokahama, Japan, August 31 – September 2, 1994, pp. A-11 – A-14.					
MC	L ✓ 37	Scott III, Robert H., "Computer-Aided Dispatch", 1998, pp. 46-50.					
MC	M ✓ 38	Moore, Rodney J., "Hold the Phone!", American Demographics, Ithaca, Jan/Feb 1996, p. 68.					
MC	N ✓ 39	Delong, Jr., Edgar S., "Making 911 even better", Telephony, December 14, 1987, pp. 60-63.					
MC	O ✓ 40	Bruzek, Frank J., "Class Calling Service – A Consumer Service Perspective", Globecom '85 IEEE Global Telecommunications Conference, Dec. 2-5, 1985, Vol. 1 of 3, pp. 11.4.1 – 11.4.4.					

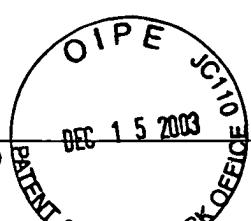
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Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MC	A 43	Powell, R., et al., "Real Time Passenger Information System for the Romanse Project", Colloouin Digest – IEE, Boston, September 1993, pp. 9/1 – 9/3.					
MC	B 44	Huber, Paul, "Public Transport Information Systems in Munich", Intelligent Transport Systems World Congress '95 – Second Wold Congress on Intelligent Transport Systems, Yokohama, Japan., November 9-11. 1995, pp. 2362-2366.					
MC	C 45	Ronez, Nicholas, et al, "GIS-Based Transit Information Bolsters Travel Options", GIS World, Vol. 6, part 7, June 1995, pp. 62-64.					
MC	D 46	Catling, Ian, et al., "TABASCO – Improving Transport Systems in Europe", Pacific Rim TransTech Conference, July 30-August 2, 1995, 995 Vehicle Navigation & Information Systems Conference Proceedings, Washington State Convention and Trade Center, Seattle, Washington, USA, pp. 503-507.					
MC	E 47	Dailey, D.J., "Demonstration of an Advance Public Transportation System in the Context of an IVHS Regional Architecture", Proceedings of the First World Congress on Applications of Transport Telematics and Intelligent Vehicle-Highway Systems, November 30 – Dec. 3, 1994, Paris, France, pp. 3024-3031.					
MC	F 48	Hubner, Paul, "Advance Public Transportation Information in Munich", International Conference on Public Transport Electronic Systems, Conference Publication No. 42, June 1996.					
MC	G 49	Thompson, S.M., et al., "Exploiting Telecommunications to Delivery Real Time Transport Information", Road Transport Information and Control, 21-23 April, 1998, pp. 59-63, Conference Publication No. 454 IEE 1998.					
MC	H 50	Kaminitzer, David, et al., "Driver Information Systems: Influencing your Route, IEE Seminar, March 3, 1999, pp. 5/1 – 5/5.					
MC	I 51	"Board Cites ATC in Spokane Near Miss", Article in Aviation Week & Space Technology, March 28, 1977, URL: <a href="http://www.aviationnow.com">http://www.aviationnow.com</a> .					
MC	J 52	Shifrin, Carole A., "Gate Assignment Expert System Reduces Delays at United's Hubs", Article in Aviation Week & Space Technology, January 25, 1988.					
MC	K 53	"United Airlines applies TI's advance technologies to improve gate management at major airports", Article in Business Wire, Inc., November 19, 1987.					
MC	L 54	Musich, Paula, "Airline Designs Software to move planes, people; Unite Airline's use of Covia Corp.'s Open Systems Manager, Connectivity Section", Article in PC Week, June 7, 1988, vol. 5, No. 23, pg. C11					
MC	M 55	Stoll, Marilyn, "Systems help Airlines Manage Gate Schedules; Connectivity Supplement", PC Week, July 25, 1988, Vol. 5, No. 30, pg. C4..					
MC	N 56	Reddy, Shyamala, "Traveling LAN: United Airlines Networks Its Terminals", Article in The Local Area Network Magazine, January 1990, Vol. 5, No. 1, pg. 108.					
MC	O 57	Fisher, Sharon, "Networked Airport Systems help Travelers find their way; United Airlines subsidiary Covia Corp. devices integrated network.", Article in Software Magazine, March 15, 1990, Vol. 10, NO. 4, Pg. 31..					

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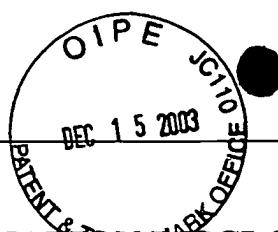
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<i>MR</i>	A ✓ <i>ss</i>	Henderson, Danna K., "Automation Takes aim at airports: the power of the networked PC is being unleashed on passenger handling and ramp activities worldwide.", Article in Air Transport Wold, August 1990., Vol, 27, No. 8, pg. 52.					
<i>MR</i>	B ✓ <i>ss</i>	"United Airlines introduces United Cargo Plug I, a new cargo computer system to serve freight forwarders", Business Wire, October 22, 1990.					
<i>MC</i>	C ✓ <i>ss</i>	Miller, Barry, "Special Report: Airline Equipment, Service Center", Aviation Week & Space Technology, August 25, 1975, pg. 51.					
<i>MC</i>	D ✓ <i>ss</i>	Lyon, Mark W., "Cargo Net Debate Splits Industry", Journal of Commerce, Specials, Pg. 4, July 27, 1992.					
<i>MC</i>	E ✓ <i>ss</i>	Davies, I.L., et al., "Electronics and the Aeroplane", Proceedings of the Institution of Electrical Engineers, Paper No. 7604, delivered before the IEE Electronics Division, 29 <sup>th</sup> October 1975.					
<i>MC</i>	F ✓ <i>ss</i>	"Global Niche", Flight International, September 26, 1990.					
<i>MC</i>	G ✓ <i>ss</i>	"Real-Time Briefings", Aviation Week and Space Technology, October 13, 1986.					
<i>MC</i>	H ✓ <i>ss</i>	Flanagan, Mike, et al., "Amelia Earhart – Mystery Still Clouds Soaring Achievements", Chicago Tribune, July 5, 1987, Final Edition, Pg. 5, Tempo Woman.					
<i>MC</i>	I ✓ <i>ss</i>	"Official Airline Guides", Airports®, November 20, 1990, Around Airports, Vol. 7, No. 47, pg. 485.					
<i>MC</i>	J ✓ <i>ss</i>	"Automation System Gains Acceptance", Aviation Week & Space Technology, November 23, 1992, Vol. 137, No. 21, pg. 97.					
<i>MC</i>	K ✓ <i>ss</i>	Klass, Philip, "French Testing "Ground-Derived' MLS", Aviation & Space Technology, Avionics, Pg. 56, December 15, 1975.					
<i>MC</i>	L ✓ <i>ss</i>	"Forecast Realized for ATC System", Aviation & Space Technology, March 17, 1975, Avionics, Pg. 168.					
<i>MC</i>	M ✓ <i>ss</i>	Henderson, Danna, et al., "Ionworks: America West Automates New Phoenix Terminal Fully Integrated System to Handle Customer-Service Demands (America West Airlines Inc) (Includes Related Article Automation of passenger Service at Airports)", Airport Transport World, May 1, 1991. Vol. 62.					
<i>MC</i>	N ✓ <i>ss</i>	3 Pages from a web site search under <a href="http://mit.edu/afs/net.mit.edu/project/attic/usa-today/tech/37">http://mit.edu/afs/net.mit.edu/project/attic/usa-today/tech/37</a> , June 12, 2003					
<i>MC</i>	O ✓ <i>ss</i>	"What's New in passenger Handling Equipment", Air Transport World, Vol. 24, Pg. 62, September 1987.					
<i>MC</i>	P ✓ <i>ss</i>	"Senator Urges Acceleration of Navstar", Aviation & Space Technology, Avionics, pg. 153, October 3, 1983.					
<i>MC</i>	Q ✓ <i>ss</i>	"AFSC Broadens Joint Program Efforts", Aviation & Space Technology, System Acquisition, pg. 83, July 19, 1976.					
<i>MC</i>	R ✓ <i>ss</i>	Herskovitz, Don, "GPS Insurance Antijamming the System; Brief Article", Journal of Electronic Defense, December 1, 2000, No. 12, Vol. 23, Pg. 41.					

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	A ✓	Hambly, Richard M., et al., "Aircraft Traffic Management on the Airport Surface Using VHF Data Link for CNS", IEEE AES Systems Magazine, march 1995, pp. 9-13.					
	B ✓	Berzins, G., et al., "INMARSAT: Worldwide Mobile Satellite Services on Seas, in Air and on Land", Space Technology, Vol. 10, No. 4, pp. 231-237, 1990.					
	C ✓	Jenney, L.L., et al., "Man as Manager of Automated Resources in an Advanced Air Traffic System", J. Aircraft, Vol. 12, No. 12, December 1975.					
	D ✓	"Routing & Scheduling System improvements from RTSI; Routing Technology Software, Inc.; Product Announcement", Modern Brewery Age, Vol. 43, No. 3, Pg. 11S, January 20, 1992.					
	E ✓	Yanacek, Frank, "Hitching to the stars; satellites for shipment tracking", Research Information Transportation Journals, Combined, No. 6, Vol. 29, p. 16.					
	F ✓	Stoll, Marilyn, "For on-the-road firms, hand-held terminals are pivotal. Connectivity", Research Information Transportation Journals, Combined, No. 34, Vol. 5, p. C11.					
	G ✓	"IBM and Hunt to Market New Truck Tracker; International Business Machines", J.B. Hunt Transport Services; Brief Article, No. 210, Vol. 101, P. 4					
	H ✓	Klass, Philip J., "Two Carriers Plan Automatic Data Link", Aviation Week and Space Technology, Air Transport Section, May 23, 1977, p. 36.					
	I ✓	"Data Link Evolved Over Three Decades", Aviation Week and Space Technology, Air Transport Section, May 23, 1977, p. 36.					
	J ✓	Klass, Philip J., "American to Install Printers in Cockpits", Aviation Week and Space Technology, Avionics, July 21, 1980, p. 56.					
	K ✓	Lefer, Henry, "Computers on a boon to E&M, but at a price", Air Transport World, Vol. 23, Pg. 53, February, 1986.					
	L ✓	Donaghue, J.A., "Choice of Data Link Systems Expands as New Generation Hits the Market", Air Transport World, Vol. 20, p. 58, April 1983.					
	M ✓	Klass, Philip J., "Digital Network Could Improve Aircraft Links to Operations, ATC", Aviation Week and Space Technology, International Air Transport Section, Vol. 131, No. 21, P. 121, November 20, 1989.					
	N ✓	Board Cites ATC in Spokane Near Miss", Article in Aviation Week & Space Technology, Safety Section, March 28, 1977, p. 59					
	O ✓	"Vicorp Interactive Systems", Aviation Daily, Aviation Suppliers Section, Vol. 309, No. 17, pg. 147.					
	P						

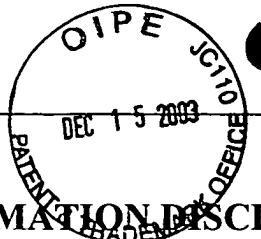
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MM	A ✓	Neumann, Dr. Horst, "ATC Concepts with Extensive Utilization of Automatic Data Processing", pp. 4-1 to 4-9; NO PUBLICATION INFORMATION OR DATE INFORMATION PROVIDED.	87				
MM	B ✓	Maxwell, Robert L., "Automation Possibilities in Air Traffic Control", pp. 561-563, NO PUBLICATION INFORMATION OR DATE INFORMATION AVAILABLE.	72				
BC	C ✓	"History of GPS", 3 pages, NO PUBLICATION INFORMATION OR DATE INFORMATION AVAILABLE.	88				
MM	D ✓	"Road Transport Research – Intelligent Vehicle High Systems – Review of Field Trials", prepared by An OECD Scientific Expert Group, pp. 1-101, Organisation for Economic Co-Operation and Development - NO DATE INFORMATION AVAILABLE.	15				
MM	E ✓	Ratcliff, Robert, et al., "Transportation Resources Information Processing System (TRIPS)", pp. 109-113, NO PUBLICATION INFORMATION OR DATE INFORMATION AVAILABLE.	15				
MM	F ✓	Balke, Kevin., et al., "Collection and Dissemination of Real-Time Travel Time and Incident Information with In-Vehicle Communication Technologies, pp. 77-82, NO PUBLICATION INFORMATION OR DATE INFORMATION AVAILABLE.	56				
MM	G ✓	Moriok, et al., "Advanced Vehicle Monitoring and communication Systems for Bus Transit – Benefits and Economic Feasibility", Final Report - U.S. Department of Transportation, September 1991, Revised March 1993, Dot-T-94-03	57				
MM	H ✓	Brynielsson, Thore, "Step by Step Development Towards Attractive Public Transport, Chalmers University of Technology, Gotebord, Sweden, Department of Transportation, 1976.	78				
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\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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081852, 119

## INFORMATION DISCLOSURE CITATION

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## U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>LL</i>	A	09/558,508	04/26/03	Jones			
<i>LL</i>	B	08/762,052	12/09/96	Jones			
<i>LL</i>	C	09/516,288	03/01/00	Jones			
<i>LL</i>	D	09/163,588	09/30/98	Jones			
<i>LL</i>	E	10/435,767	05/12/03	Jones			
<i>LL</i>	F	10/436,346	05/12/03	Jones			
<i>LL</i>	G	10/322,956	12/18/02	Jones			
<i>LL</i>	H	10/392,264	03/18/03	Jones			
<i>LL</i>	I	10/326,556	12/20/02	Jones			
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## FOREIGN PATENT DOCUMENTS

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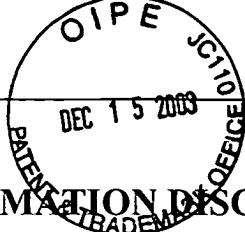
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**U.S. PATENT DOCUMENTS**

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M	A	10/435,765	05/12/03	Jones			
M	B	10/436,120	05/12/03	Jones			
M	C	10/436,119	05/12/03	Jones			
M	D	10/435,770	05/12/03	Jones			
M	E	10/436,196	05/12/03	Jones			
M	F	10/435,770	05/12/03	Jones			
M	G	10/656,522	09/05/03	Jones			
M	H	10/686,925	10/16/03	Jones			
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Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>M</i>	A	2002/0082770 A1	06/27/02	Jones			
<i>M</i>	B	2002/0070882 A1	06/13/02	Jones			
<i>M</i>	C	2002/0016171 A1	02/07/02	Doganata, et al.	455	456	
<i>M</i>	D	5,594,787	01/14/97	Ohshima, et al.	379	114	07/19/95
<i>M</i>	E	RE35,920	10/13/98	Sorden, et al.	342	457	
<i>M</i>	F	3,568,161	03/1971	Knickel	340	994	
<i>M</i>	G	3,845,289	10/29/74	French	235	151.2	
<i>M</i>	H	3,886,515	05/1975	Cottin, et al.	340	994	
<i>M</i>	I	3,934,125	01/20/76	Macano	235	150.2	
<i>M</i>	J	4,220,946	09/02/80	Henriot	340	23	04/20/78
<i>M</i>	K	4,350,969	09/21/82	Greer	340	23	

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	JP 11034872 A	02/09/99	Japan	B61L25	02		x
	63288400	11/88	Japan	G08G1	12		x
<i>M</i>	WO 93/13510 A1	07/08/93	Great Britain	G08G1	123		x
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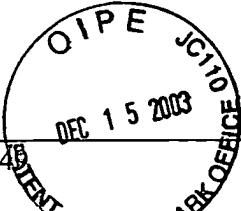
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*M. Cawell*

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## U.S. PATENT DOCUMENTS

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	A	4,525,601	06/25/85	Barnich, et. Al.	379	7MM	12/13/83
	B	4,585,904	04/29/86	Mincone, et al.	179	7.1 TP	01/06/84
	C	4,804,837	02/14/89	Farley	250	251	01/11/88
	D	4,813,065	03/14/89	Segala	379	112	10/13/87
	E	4,857,925	08/15/89	Brubaker	340	994	01/11/88
	F	5,003,584	03/26/91	Benyacar, et al.	379	119	04/16/90
	G	5,006,847	04/09/91	Rush, et al.	340	994	05/04/88
	H	5,014,206	05/07/91	Scribner, et al.	364	449	08/22/88
	I	5,048,079	09/10/91	Harrington, et al.	379	112	08/10/90
	J	5,068,656	11/26/91	Sutherland	340	989	12/21/90
	K	5,103,475	04/07/92	Shuen	379	115	10/29/90

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	A	5,122,959	06/16/92	Nathanson, et al.	364	436	
	B	5,144,301	09/01/92	Jackson, et al.	340	994	
	C	5,146,491	09/08/92	Silver, et al.	379	114	08/08/91
	D	5,155,689	10/13/92	Wortham	364	460	
	E	5,168,451	12/01/92	Bolger	364	436	
	F	5,179,584	01/12/93	Tsumura	379	114	11/01/91
	G	5,218,632	06/08/93	Cool	379	126	10/16/91
	H	5,223,844	06/29/93	Mansell, et al.	342	357	
	I	5,243,529	09/07/93	Kashiwazaki	364	449	06/29/92
	J	5,263,260	04/22/97	Jones	340	994	
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	A	4,812,843	03/14/89	Champion, III, et al.	340	905	08/11/87
	B	5,483,454	01/09/96	Lewiner, et al.	364	443	04/29/94
	C	5,955,974	09/21/99	Togawa	340	994	03/13/98
	D	6,006,159	12/21/99	Schmier, et al.	701	200	08/13/96
	E	6,124,810	09/26/00	Segal, et al.	340	994	09/15/98
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## U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>M</i>	A	6,137,425	10/24/00	Oster, et al.	340	994	11/24/98
<i>A</i>	B	6,184,802	02/06/01	Lamb	340	994	10/13/99
<i>M</i>	C	6,191,708	02/20/01	Davidson	240	994	03/24/00
<i>M</i>	D	6,253,148	06/26/01	Decaux, et al.	701	204	07/01/98
<i>M</i>	E	6,360,101	03/19/02	Irvin	455	456	12/31/98
<i>M</i>	F	6,374,176	04/16/02	Schmier, et al.	701	200	09/27/99
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## U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A	5,381,338	01/10/95	Wysocki, et al.	364	449	
	B	5,381,467	01/10/95	Rosinski, et al.	379	121	10/30/92
	C	5,394,332	02/28/95	Kuawahara, et al.	364	449	
	D	5,398,190	03/14/95	Wortham	364	460	
	E	5,420,794	05/30/95	James	364	436	
	F	5,432,841	07/11/95	Rimer	379	59	
	G	5,440,489	08/08/95	Newman	364	426.05	01/21/93
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## U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>M</i>	A	5,483,234	01/09/96	Correel, et al.	340	994	06/02/94
<i>g</i>	B	5,483,454	01/19/96	Lewiner, et al.	364	443	
<i>H</i>	C	5,493,694	02/20/96	Vlcek, et al.	455	53.1	
<i>m</i>	D	5,506,893	04/09/96	Buscher, et al.	379	114	11/29/94
<i>M</i>	E	5,515,421	05/07/96	Sikand, et al.	379	67	07/26/94
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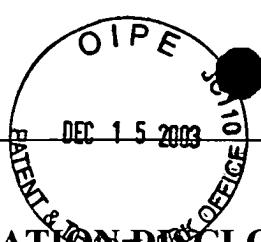
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## U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A	5,552,795	09/03/96	Tayloe, et al.	342	357	05/03/94
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	C	5,577,101	11/19/96	Bohm	379	58	04/10/96
	D	5,587,715	12/24/96	Lewis	342	357	
	E	5,594,650	01/14/97	Shah, et al.	364	449.1	
	F	5,602,739	02/11/97	Haagenstad, et al.	364	436	11/22/95
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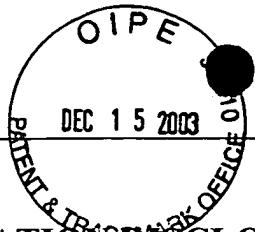
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<i>MM</i>	A	5,668,543	09/16/97	Jones	340	994	
<i>CH</i>	B	5,694,459	12/02/97	Backaus, et al.	379	427	01/16/97
<i>CL</i>	C	5,712,908	01/27/98	Brinkman, et al.	379	119	05/17/96
<i>BB</i>	D	5,715,307	03/03/98	Zazzera	379	265	04/18/96
<i>CL</i>	E	5,719,771	02/17/98	Buck, et al.	364	443	
<i>CL</i>	F	5,724,243	03/03/89	Westerlage, et al.	364	446	02/10/95
<i>CL</i>	G	5,724,584	03/03/98	Peters, et al.	395	671	08/15/96
<i>CL</i>	H	5,729,597	03/17/98	Bhusri	379	115	05/16/95
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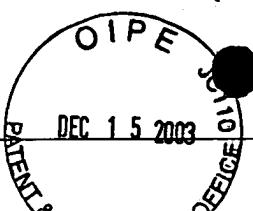
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	B	5,739,774	04/14/98	Olandesi	340	994	07/12/96
	C	5,742,672	04/21/98	Burk	379	198	07/18/95
	D	5,751,245	05/12/98	Janky, et al.	342	357	
	E	5,760,742	06/02/98	Branch, et al.	342	457	08/20/97
	F	5,771,282	06/23/98	Friedes	379	121	12/04/96
	G	5,781,156	07/14/98	Krasner	342	357	04/23/97
	H	5,784,443	07/21/98	Chapman, et al.	379	119	02/01/96
	I	5,793,853	08/11/98	Sbisa	379	120	06/22/95
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M	B	5,799,073	08/25/98	Fleischer, III, et.al.	379	113	06/07/95
AK	C	5,799,263	08/25/98	Culbertson	701	117	
RL	D	5,805,680	09/08/98	Penzias	379	118	01/02/96
RL	E	5,808,565	09/15/98	Matta, et al.	340	994	
ML	F	5,835,580	11/10/98	Frazer	379	115	04/04/96
RL	G	5,841,847	11/24/98	Graham, et al.	379	114	04/11/97
M	H	5,864,610	01/26/99	Ronen	379	127	01/26/98
M	I	5,875,238	02/23/99	Glitho, et al.	379	116	12/21/95
M	J	5,881,138	03/09/99	Kearns, et al.	379	114	04/25/97
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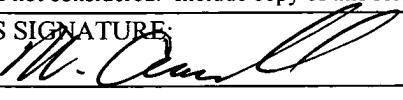
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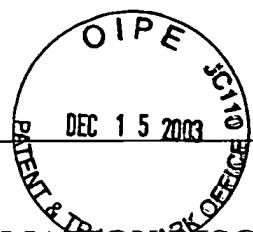
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081853, 119

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## U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A	5,912,954	06/15/99	Whited, et al.	379	115	12/31/97
	B	5,915,006	06/22/99	Jagadish, et al.	379	127	05/01/97
	C	5,920,613	07/06/99	Alcott, et al.	379	114	04/25/97
	D	5,922,040	07/13/99	Prabhakaran	701	117	
	E	5,937,044	08/10/99	Kim	379	121	09/30/96
	F	5,943,320	08/24/99	Weik, et al.	370	259	12/12/96
	G	5,943,406	08/24/99	Leta, et al.	379	120	09/30/97
	H	5,943,657	08/24/99	Freestone, et al.	705	400	09/30/96
	I	5,945,919	08/31/99	Trask	340	825.491	
	J	5,946,379	08/31/99	Bhusri	379	115	07/31/98
	K	5,950,174	09/07/99	Brendzel	705	34	09/07/99

## FOREIGN PATENT DOCUMENTS

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## U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A	5,952,659	12/22/98	Welter, Jr.	379	116	12/29/95
	B	5,955,974	09/21/99	Togawa	340	994	
	C	5,956,391	09/21/99	Melen, et al.	379	114	02/10/97
	D	5,982,864	11/09/99	Jagadish, et al.	379	115	05/01/97
	E	5,987,108	11/16/99	Jagadish, et al.	379	114	03/19/97
	F	5,987,377	11/16/99	Westerlage, et al.	701	204	03/02/98
	G	5,991,377	11/23/99	Malik	379	114	08/11/97
	H	5,991,380	11/23/99	Bruno, et al.	379	115	10/21/97
	I	5,991,381	11/23/99	Bouanaka, et al.	379	115	10/30/97
	J	5,995,602	11/30/99	Johnson, et al.	379	116	03/24/99
	K	6,006,159	12/21/99	Schmier, et al.	701	200	

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Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A	6,111,538	08/2000	Schuchman, et al.	342	357	
	B	6,124,810	09/26/00	Segal, et al.	340	994	
	C	6,134,501	10/17/00	Oumi	701	209	08/31/98
	D	6,137,425	10/24/00	Oster, et al.	340	994	11/24/98
	E	6,144,301	11/07/00	Frieden	340	572.8	02/10/97
	F	6,178,378	01/23/01	Leibold	701	202	04/30/99
	G	6,184,802	02/06/01	Lamb	340	994	
	H	6,191,708	02/20/01	Davidson	340	994	
	I	6,253,148	06/26/01	Decaux, et al.	701	204	
	J	6,278,936	08/21/01	Jones	701	201	
	K	6,313,760	11/06/01	Jones	340	994	

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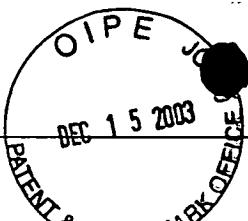
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	A	6,317,060	11/13/01	Jones	340	994	
	B	6,360,101	3/19/02	Irvin	445	456	
	C	6,363,254	03/26/02	Jones, et al.	455	456	
	D	6,363,323	03/26/02	Jones	701	213	
	E	6,374,176	04/16/02	Schmier, et al.	701	200	
	F	6,400,956	06/04/02	Richton	455	456	
	G	6,411,891	06/25/02	Jones	701	201	
	H	6,415,207	07/02/02	Jones	701	1	
	I	6,486,801	11/26/02	Jones	340	994	
	J	6,492,912	12/10/02	Jones	—	—	
	K	6,510,383	01/21/03	Jones	—	—	

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